

Amendments to the Specification:

Please replace paragraph [0020] with the following amended paragraph:

[0020] FIG. 1 is a block diagram illustrating an augmented virtual environment system 100. The system 100 can include range sensors 110, image sensors 120, and tracking sensors 130. These sensors 110, 120, and 130 can feed information to various components of the system 100, including a data acquisition component 140 and a motion tracking component 150.

Please replace paragraph [0022] with the following amended paragraph:

[0022] The system 100 can generate rapid and reliable realistic three-dimensional virtual environment models, which can be used in many different virtual environment applications, including in engineering, mission planning, training simulations, entertainment, tactical planning, and military operations in battlefield environments. Real-time texture images can be obtained using the image sensors 120 and mapped onto a created 3D model, providing a dynamic and up-to-date picture of the modeled environment. This can be of particular value in time-critical applications, such as military command and control, person or vehicle tracking, and catastrophe management. The system 100 can provide a rapid and accurate fusion of dynamic appearance and geometric data using real-time video and other sensor data.

Please replace the title with the following amended title:

MODELING AND VIDEO PROJECTION FOR AUGMENTED VIRTUAL  
ENVIRONMENTS